





S.S. ARLINGTON BEACH PARK.

REVISIONS

WEST COAST SHIPBUILDERS LTD.

VICTORY TANKER
GENERAL PUMPING ARRANGEMENT

011397-011407-0192

TABLE OF
MAIN SUBDIVISION

FRAMES	COMPARTMENT	LENGTH	LONGITUDINAL DIVISION
1-12	HT. PEAK TANK	24'-0"	
12-18	HT. COFFERHAM	15'-0"	
18-27	NO. 7 TANK	22'-6"	OT 4 BULKHEAD
27-40	NO. 6 TANK	32'-6"	OT 6 BULKHEAD
40-58	NO. 5 TANK	45'-0"	2-OT BHPD 10'-0" OFF E
58-66	PUMP ROOM COFFERHAM	20'-0"	WT 4 BULKHEAD
66-96	MACHINERY SPACE	50'-0"	
96-101	P.W. PUMP ROOM	12'-6"	
101-106	NO. 4 TANK	31'-6"	2-OT BHPD 10'-0" OFF E
106-121	NO. 3 TANK (APT)	37'-6"	2-OT BHPD 10'-0" OFF E
121-135	NO. 2 TANK (TANK)	35'-0"	2-OT BHPD 10'-0" OFF E
135-149	NO. 1 TANK	29'-0"	OT 6 BULKHEAD
149-173	FOREPEAK TANK	22'-0"	

PRINCIPAL DIMENSIONS

LENGTH B.P. 416'-0"
BREADTH MLD. 56'-10 1/2"
DEPTH MLD. 37'-4"
DRAFT MLD. 26'-10 1/4"
CORRESPONDING DEADWEIGHT 10,000 TONS
FIRST NUMERAL (L x D) 15,500
SECOND NUMERAL L x (B x D) 39,200

FRAME SPACING

PERMITS 11'-18" - 24"
PERMITS 12'-18" - 30"
PERMITS 135'-160' - 27"
PERMITS 160'-174' - 24"

CASING

CASING PLATING 3/16" to 1/4"
CASING STIFFENERS 3" x 3" x 3/16" D&S
CASING TOP BEAMS 6" x 3 1/2" x 3/8" D&S

UPPER DECK PLATING

UPPER DECK STRINGER PLATE 1" to 3/8"
UPPER DECK PLATING OUTSIDE CASING 3/16" to 3/8"
UPPER DECK PLATING BETWEEN TEENES 3/16" to 3/8"
UPPER DECK TRUNK COVER DOUBLES 3/16"
WHOLE DECK 1/4" x 3/8" FOR 3/8" L ONLY

UPPER DECK GIRDERS

3 GIRDERS TO BE LOCATED UNDER UPPER DECK - 1 ON CENTRE LINE & 1 EACH 18'-0" OF E & W S.
GIRDERS ALL 12 1/2" x 3/8" & TO HAVE 6" x 3 1/2" x 1/2" FACE BAR. NO SHOWN 9 1/2" x 3/8" GIRDER WITH 6" x 3 1/2" x 1/2" FACE BAR TO BE ATTACHED TO EXPANSION TRUNK TOP BEAMS ON E

SECOND DECK PLATING

SECOND DECK STRINGER PLATE 3/8" to 1/2"
SECOND DECK PLATING 3/16" R to 3/8" R

SECOND DECK BEAMS

AFTER PEAK 3" x 3 1/2" x 46" D&S
FORE PEAK 7" x 3 1/2" x 42" D&S
MAIN AND DECK BEAMS IN 5 SECTIONS 9" x 3 1/2" x 44" D&S

BRACKETTING ARRANGEMENT

SECOND DECK BEAM KNEES - 3 1/2" x 3 1/2" x 3/8" PL 2 1/2"
LONGITUDINAL B&D TO 2ND DECK - 28 1/2" x 34 1/2" x 3/8" PL 2 1/2"
(IN WAY OF B&D STIFFENERS)
LONGITUDINAL B&D TO 2ND DECK - 30" x 34 1/2" x 3/8" PL 2 1/2"
(ON OPPOSITE SIDE TO STIFFENERS)
LONGITUDINAL B&D TO TANK TOP - 24" x 30" x 3/8" PL 2 1/2"
UPPER DECK BEAM KNEED - 24" x 24" x 3/8"
UPPER DECK BEAM TO EXPANSION TRUNK
LONGITUDINAL TWEEN DECK B&D STIFFENER TO 2ND DECK 9" x 12 1/2" x 3/8" NO FLANGE
EXPANSION TRUNK BEAM KNEED - 24" x 24" x 3/8" PL 2 1/2"
TRANSVERSE OT & WT B&D STIFFENER TOP & BOTTOM BRACKET 25 1/2" x 30" x 3/8" FLANGED 2 1/2"

BILGE BRACKET GUSSETS

3 1/2" x 3 1/2" x 3/8" RUNNER BAR TO BE RUN OVER FLANGES OF BILGE BRACKETS - 12" OFF TANK MARGIN - WED PLATE TO BE FITTED BETWEEN RUNNER & MARGIN PLATE ON EVERY 2ND FRAME
SPACE - RUNNER BAR 10" OFF MARGIN ON BRACKETS, FRAMES 137-161
AUXILIARY RUNNER OF 8" x 3" x 3/8" @ 19.5" CHANNEL TO BE RUN ALONG TOP OF BILGE BRACKETS WHERE DISTANCE FROM GUSSET TO FRAME EXCEEDS 4'-0". WAREE ABOVE DISTANCE BETWEEN 4'-0" & 4'-6" - 4" x 3 1/2" x 3/8" L RUNNER TO BE FITTED

TWEEN DECK FRAMES

6" x 3 1/2" x 3/8" D&S MIDSHIPS & AFT
6" x 3 1/2" x 3/8" D&S FOREWARD & 7/8" LENGTH
8" x 3 1/2" x 3/8" D&S FORE & AFT PEAKS

SHELL PLATING

SHEER STRAKE

1 1/2" MIDSHIPS TO 7/8" AT ENDS

STRAKE BELOW SHEER STRAKE

3/8" MIDSHIPS TO 7/8" AT ENDS

SIDE SHELL

3/8" PLATING MIDSHIPS TO 7/8" AT ENDS - SIDE SHELL INCREASED 25% ABOVE RULE THICKNESS (6 TO 7/8") IN LIEU OF STIFFENERS IN WAY OF PAINTING AREA 10% OF LENGTH AFT OF COLLISION BULKHEAD

BOTTOM PLATING

3/8" PLATING - 3 STRAKES NEXT TO KEEL TO BE 10% ABOVE RULE THICKNESS FROM 1/2 L TWO

KEEL

32" x 3/4" FOR 3/8" L TO 7/8" AT ENDS

FRAMING

MAIN FRAMES

18" x 4" x 40" - 38" CHANNEL FRAMES IN WAY OF E.R. & NO. 4 TANK

12" x 4" x 40" - 40" CHANNEL FRAMES IN E.R. B.E. NO. 7 TANK, NO. 6 TANK, NO. 5 TANK, PUMP ROOMS & NO. 3 TANK

10" x 3 1/2" x 3 1/2" x 42" - 25.5" CHANNEL FRAMES IN NO. 1 & NO. 2 TANKS

8" x 3 1/2" x 34" - 16" FRAMES IN FORE & AFT PEAK

CENTRE GIRDER AND SIDE GIRDERS

CENTRE GIRDER

45% DEEP - 3/8" IN BOILER SPACE 3/8" x 3/8" ELSEWHERE

TOP BEAMS

4" x 4" x 1/2" IN BOILER SPACE 3 1/2" x 3 1/2" x 3/8" ELSEWHERE

BOTTOM BEAMS

4" x 4" x 1/2" - 10.8" THROUGHOUT

VERTICALS

4" x 4 1/2" IN BOILER SPACE - 4" x 4" x 3/8" UNDER BOLLER BEAKERS, 6" x 6" x 1/2" UNDER ENGINES - 3 1/2" x 3 1/2" x 3/8" ELSEWHERE

GIRDERS

1 EACH SIDE 4" x 3 1/2" x 3/8" - 15.9" DA CONTINUOUS TOP & BOT 4" x 3 1/2" x 3/8" - 15.9" DA VERT AT EACH FLOOR

INTERCOSTAL GIRDERS

UNDER ENGINES & P.W. OF 3/8" L IN PAINTING AREA

FLOORS - FRAMES - REVERSE FRAMES

FLOORS ON EVERY FRAME 3/8" STIFFENERS AS SHOWN 1/2" R UNDER BOLLERS

WT & OT FLOORS

1/2" PLATE WITH 6" x 3/8" PA STIFFENERS AT 5'-0" SPACING

REVERSE FRAMES IN TANKS

4" x 4" x 1/2" IN BOILER SPACE - 6" x 6" x 1/2" UNDER BOLLERS BEAKERS 6" x 6" x 1/2" UNDER ENGINES - 3 1/2" x 3 1/2" x 3/8" ELSEWHERE

BOTTOM FRAMES

FROM 1/2 L FORWARD TO COLLISION BULKHEAD 6" x 6" x 1/2" ELSEWHERE 3 1/2" x 3 1/2" x 3/8" DA

NOTE - BASE LINE TAKEN 1/2" ABOVE BOTTOM OF CUR ANGLES

WELDED CONSTRUCTION

WELDING IS TO BE USED ON FOLLOWING ITEMS -

SHELL

ALL SHELL BUTTS - SHELL SEAMS IN WAY OF FORE PEAK, AFT PEAK & FOREWARD DEEP TANKS - SHELL CONNECTIONS TO ALL OT & WT BULKHEADS - SHELL CONNECTION TO 2ND DECK - SHELL CONNECTION TO UPPER DECK AT FORE & AFT ENDS ONLY

DOUBLE BOTTOM

ALL WT & OT FLOORS & COFFERHAMS - FLOORS TO MARGIN

TANK TOP

LONGITUDINAL & TRANSVERSE WT & OT BULKHEADS TO TANK TOP - TANK TOP TO MARGIN - MARGIN TO SHELL - TUNNEL WELDED THROUGHOUT

BULKHEADS

ALL OT & WT BULKHEADS THROUGHOUT INCLUDING TRANSVERSE BULKHEADS, LONGITUDINAL BULKHEADS & EXPANSION TRUNKS

SECOND DECK

ALL BUTTS & SEAMS & CONNECTIONS TO BEAMS, BULKHEADS, EXPANSION TRUNKS

UPPER DECK

ALL BUTTS & CONNECTIONS TO EXPANSION TRUNKS & CASINGS - CONNECTION TO SHELL FORE & AFT OF MIDDLE 3/8" LENGTH

ALL WELDING TO MEET SURVEYORS APPROVAL - WELDING KOPD TO BE APPROVED BY CLASSIFICATION SOCIETY
ALL BUTTS & BEVELLED FILLET WELDS TO HAVE DEADING WELD ON REVERSE SIDE
BEAMS, STIFFENERS, STRINGERS & WEBS TO BE INTERMITTENTLY WELDED WITH SIZES & SPACING OF TACKS

RIVETED CONSTRUCTION

ITEM	SEAM	RIV. DIA.	PITCH
SEAMS IN SHELL PLATING	DOUBLE	3/8"	4 DIA
PERMITS TO SHELL IN CARGO TANKS ETC	---	3/8"	5 1/2 DIA
FRAMES TO SHELL MACHINERY SPACE	---	3/8"	6 1/2 DIA
FRAMES TO FLOORS - NORMAL	---	3/8"	7 DIA
FRAMES TO FLOORS - PAINTING AREA	---	3/8"	5 1/2 DIA
REVERSE FRAMES TO FLOORS - NORMAL	---	3/8"	7 DIA
REVERSE FRAMES TO FLOORS IN E.R.	---	3/8"	5 1/2 DIA
REVERSE FRAMES TO TANK TOP	---	3/8"	6 1/2 DIA
REVERSE FRAMES TO TANK TOP IN E.R.	---	1"	4 1/2 DIA
TANK TOP SEAMS	D&S	3/4"	4 DIA
UPPER DECK SEAMS	SINGLE	3/8"	4 1/2 DIA
CASING & LONG TWEEN DECK B&D BUTTS	SINGLE	3/8"	5 1/2 DIA
CASING & LONG TWEEN DECK B&D SEAMS	SINGLE	3/8"	6 DIA
CASING & LONG TWEEN DECK B&D TO STIFF	---	3/4"	7 DIA
TRANSVERSE TWEEN DECK B&D BUTTS	SINGLE	3/8"	5 1/2 DIA
TRANSVERSE TWEEN DECK B&D TO STIFF	---	3/8"	7 DIA

BRACKETTED CONNECTIONS

BRACKET	HT RIV	SIZE
BILGE BRACKET FRS. 66 - 106	14	7/8"
BILGE BRACKET FRS. 120 - 161	13	7/8"
BILGE BRACKET FRS. 19 - 45 & 107 - 135	16	7/8"
2ND DECK BEAM KNEES	8	7/8"
UPPER DECK BEAM KNEES	6	7/8"
CENTRE LINE B&D BOTTOM B&D	7	7/8"
CENTRE LINE B&D TOP BRACKET	7	7/8"
EXPANSION TRUNK TOP BRACKET	6	7/8"
STRINGER BUTTS TO STREETS	8	7/8"
TRANSVERSE OT BULKHEAD BRACKET	8	7/8"

EQUIPMENT

- 2 - STOCKLESS ANCHOR 8900 LBS EACH
- 1 - STREAM ANCHOR (STOCKLESS) 25 1/2 CWT.
- 1 - 2 1/2" HT. STAY CABLE CHAIN 255 FATHOMS
- 1 - STEERIN WHEEL 90 FATHOMS 3" x 6" x 12 F.S.W
- 1 - TOWLINE 120 FATHOMS 1 3/4" x 6" x 24 SP F.S.W
- 2 - HAWSEERS 90 FATHOMS 2 3/4" x 6" x 12 F.S.W
- 2 - WARPES 90 FATHOMS 2 1/4" x 6" x 12 F.S.W

NOTE

SEE LETTER W.M.S.L. DATED 7/7/43 ON VICTORY FREIGHTERS' RULES REQUIRE 250 FATHOMS OF 2" HT. STAY LINK CHAIN CABLES IF 2 1/2" IS SUPPLIED 255 FMS WOULD BE ACCEPTABLE DURING THE EMERGENCY, TO BE INCREASED LATER TO 270 FMS IF, ON ACCOUNT CHAIN CABLE SHORTAGE, LESS THAN 255 FMS ARE SUPPLIED NOW CLASS WOULD BE SUBJECT TO DEFICIENCY BEING MADE GOOD AT FIRST OPPORTUNITY

ARLINGTON BEACH PARK

YARD NO.

135

DESIGNED BY LLOYD'S REGISTER

APPROVED BY LLOYDS REGISTER OF SHIPPING .. NEW YORK, AUG. 12, 1943.

REVISIONS

WEST COAST SHIPBUILDERS LTD.

VICTORY TANKER - MIDSHIP SECTION

DESIGNED	DRAWN	TRACED	CHECKED
J. C. Jones	J. C. Jones	M. Carter	
APPROVED	REVISED	DATE	SCALE
Aug 12/43		JUNE 3, 1943	1/2" = 1 FT

HULL NO. 133 - 137 DWG. NO. VT - 1

QUINT. DIMENSIONS